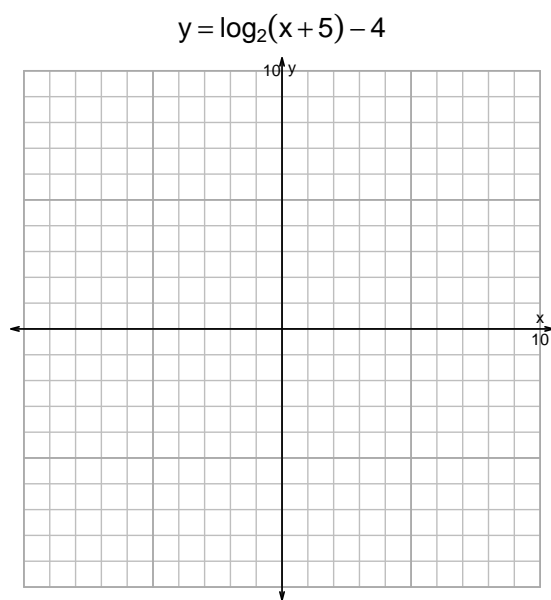
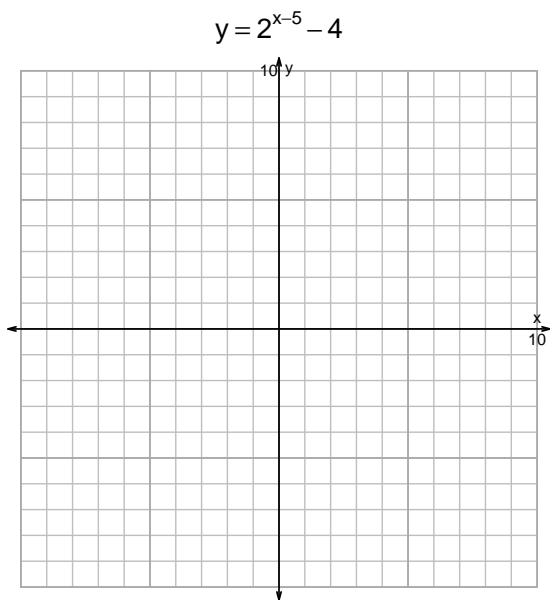


Name: \_\_\_\_\_

Date: \_\_\_\_\_

S18QUIZ: EXP LOG (PRACTICE v137)

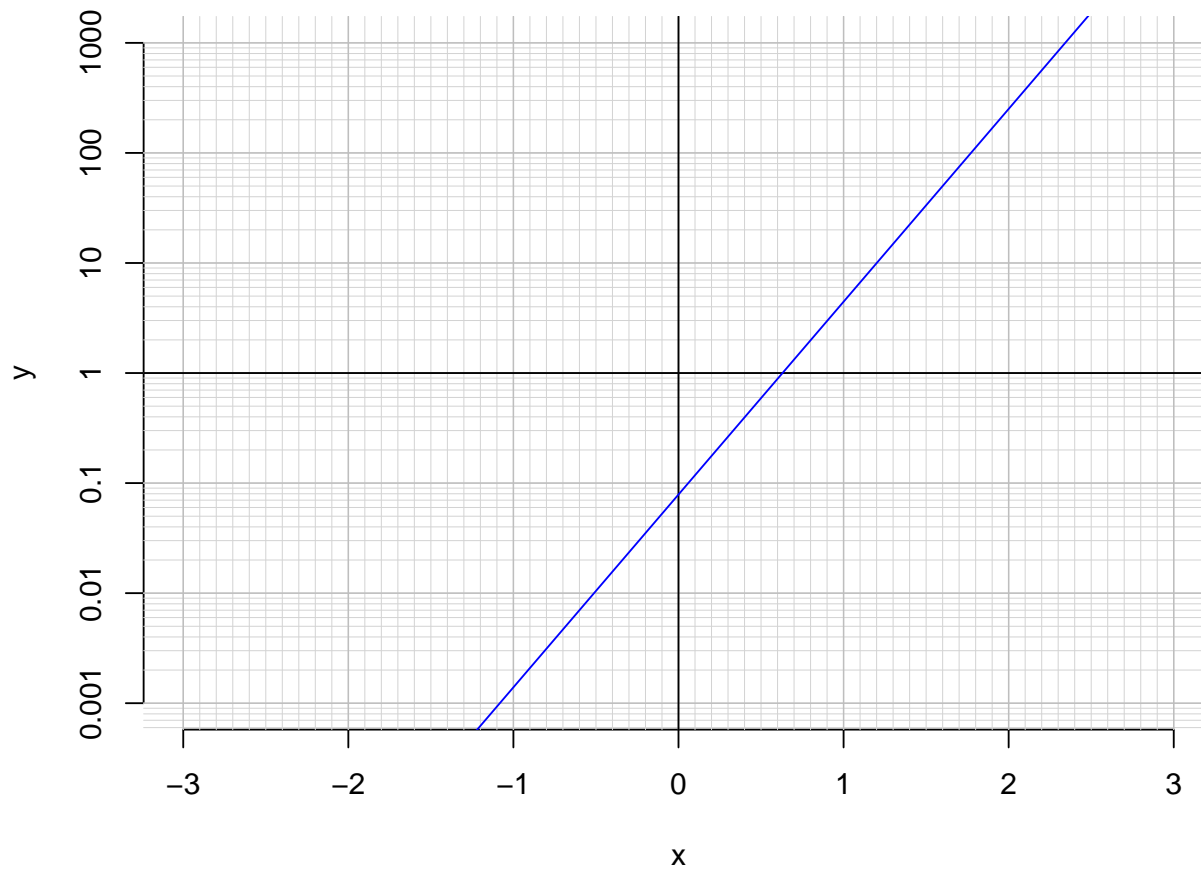
1. Graph  $y = 2^{x-5} - 4$  and  $y = \log_2(x + 5) - 4$  on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-23 = \left(\frac{-5}{7}\right) \cdot 10^{4t/3}$$

3. An exponential function  $f(x) = 0.0787 \cdot e^{4.03x}$  is graphed below on a semi-log plot.



- a. Using the plot above, evaluate  $f(-0.6)$ .

- b. Express  $f^{-1}(x)$ , the inverse of  $f$ .

- c. Using the plot above, evaluate  $f^{-1}(50)$ .